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Is there evidence of simple relationship among measured yrast energies in even-even nuclei? DONGWOO CHA, JIN-HEE YOON, DOOY-OUNG KIM, Inha University — We benefit often by studying particular nuclear properties in terms of simple variables over the wide span of the chart of nuclides. A well-known such example for the ground state is the semi-classical mass formula. But, there have seldom appeared similar studies on observables concerning the excited states of nuclei. In this work, we collect measured yrast energies in even-even nuclei and test whether there exists any simple relationship among them.

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